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BUILDERS ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai | ISO 9001:2015 Certified Institution | NAAC 'A+' Grade | Recognized 2(f) status by UGC

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Paribhaashaa

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NEWS LETTER

Genesis:

The Department of Computer Science and Engineering, started in the year 2009, offers BE Computer Science and Engineering and M.E Computer Science programme was started in the year 2013 to meet the challenges of higher education, research, and innovation in key areas of computer science. The department aims to develop computer and software engineers who are industry-ready, innovative and entrepreneurial to become global leaders in research and technology. Students are encouraged to participate and present papers in both national and international conferences. The Computer Science and Engineering department is equipped with 306 computers with high-end configuration distributed across Seven laboratories with four blade-mounted servers and latest version software. The department is an active participant in various activities in the campus.

Highlights:

- Exemplary Placement Record
- Hands on Workshop on Trending Technology
- Academic Incentives for Top Performers
- Empowered Faculty Members who received National and International Awards
- Strong Industry Tie-Ups
- Smart Class Rooms & Learning Management Systems
- Students are given Opportunity to organize Major Events of the Department
- National level Champions in Sports and Games

Vision:

To be the most skilled software engineer provider.

Mission:

Endeavors to prepare rural students for successful career through academic and applied research as an inspiration for upcoming student community.

Program Specific Objectives (PSOs):

The Students will be able to,

- Exhibit design and programming skills to build and automate business solutions using cutting edge technologies.
- Strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.
- Ability to work effectively with various engineering fields as a team to design, build and develop system applications.

Editors:

1. Mr.S.Gopinath ,HOD/CSE
2. Dr.Maya.D,ASP/CSE

Program Outcomes (POs):

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research–based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life–long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life–long learning in the broadest context of technological change.

COLLEGE VISION & MISSION

Vision:

To be the most preferred knowledge provider.

Mission:

Builders Engineering College endeavors to prepare rural students for successful career through academic and applied research.

Programme Educational Outcomes (PEO):

PEO1

Should achieve success in their field of work, in future education and in their research.

PEO2

Shall consistently learn new things and hone existing talents to generate impactful,
resource-saving and cutting-edge solutions.

PEO3

Must demonstrate strong communication abilities, a professional demeanour and ethical principles while designing and creating practical, multidisciplinary solutions that are technically sound, financially viable and socially acceptable.

EDITORIAL BOARD

FACULTY IN-CHARGE

Mr. S. Gobinath AP(Sr.Gr)HoD

Dr.D.Maya AsP/CSE

STUDENT MEMBERS

M.Vimalraj

S.V.Sowthika

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From the Principal's Desk

Dr. S. Gopalakrishanan
Principal

It gives me an immense pleasure in welcoming you to Builders Engineering College (BEC),Nathakadaiyur, Tirupur 638 108. BEC (Formerly Erode Builder Educational Trust's Group of Institutions) was founded in the year 2009 by Erode Builder Educational Trust (EBET) with a vision to impart quality higher education to rural aspirants through innumerable institutions. It has been promoted by a group of likeminded visionaries with the unique objective of offering value based education to the students for a prosperous career.

BEC is approved by AICTE, New Delhi and affiliated to Anna University, Chennai. The campus is eco-friendly and equipped with excellent infrastructure, qualified and well experienced faculty members who strive hard to attain academic excellence in higher education by empowering students with knowledge, wisdom and experience.

Over the past 14 years, the college has witnessed a strong blend of state-of-the-art infrastructure including incubation and innovation centres and dedicated human resource committed to provide professional education with thrust on Creativity, Technical and Innovation.

Since its inception, BEC creates excellent placement opportunities to the students to reach a spectacular position in their professional career and offers special training to develop the extracurricular skills.

I look forward to receiving you at Builders Engineering College to witness all new Outcome Based Education (OBE).

From the HoD's Desk

Mr. S. Gobinath
HoD

Department of Computer Science & Engineering commits to work towards developing Engineers with a rich blend of competent, technical, managerial and social skills and contribute to nation building. The Department takes the initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. To meet the vision and mission of the depatemnt , emphasis was given to practical skill based learning with recent technical tools in order to match the technical expecation of the corporate companies.

Students exhibit their innovative ideas, skills and potentials as final year projects and have won many awards at variours levels. The state of the art infrastructure, experienced team of faculty strengthen effective teaching learning process ensuring quality technical education.

Sports Participation:

Anna University Zone Kabaddi Participation :
November 22, 2022

In the thrilling arena of Anna University Zone Kabaddi Participation for the academic year 2021-22, three outstanding athletes demonstrated exceptional prowess. S. Dinesh Kumar, S. Athish, and G. Kadhir showcased remarkable Kabaddi skills on the memorable date of 22nd November 2022. Each participant contributed to the event's excitement, embodying the true spirit of sportsmanship. Their dedication and passion for Kabaddi were evident, leaving an indelible mark on the competition. As we celebrate these achievements, we extend our heartfelt congratulations to S. Dinesh Kumar, S. Athish, and G. Kadhir for their outstanding performances, making our institution proud on the Anna University Zone stage. Their commitment to excellence in Kabaddi serves as an inspiration for the entire community.

Youth Federations

The 2021-22 Youth Federations Sports Gala witnessed triumphs by outstanding athletes. K. Lokesh, M. Vitnesh, Immanuvel, and S. Santhosh secured the Basketball First Prize on May 8, 2022. Meanwhile, S. Athish showcased dominance in the 800 Meters and 1500 Meters, clinching First Prizes. P. Rajendra Prasanth excelled in the 110 Hurdles and 200 Meters events, contributing to a remarkable display of athletic prowess and sportsmanship, making our institution proud on this memorable occasion.

Mini Marathon conducted by Vasan Eye Care:

In the competitive arena of long-distance running, S. Athish displayed exceptional endurance and skill in the 5000-Meter Mini Marathon conducted by Vasan Eye Care on November 16, 2021. His remarkable performance earned him the Twelfth Prize, showcasing dedication and athleticism in this challenging event. Athish's achievement is a testament to his commitment to excellence in the realm of competitive running.

Mini Marathon conducted by kongunadu college of engineering and technology

IIn a test of endurance at the 8000-Meter Mini Marathon organized by kongunadu college of engineering and technology. on April 10, 2022, both Prasanth and S. Athish showcased their remarkable running abilities.

Prasanth secured the Fifth Prize, while S. Athish clinched the Fourth Prize. Their achievements underscore their commitment to excellence in long-distance running, contributing to a memorable event.

South Zone Atheletic Federation

In the competitive arena of long-distance running, S. Athish displayed exceptional endurance and skill in the 5000-Meter Mini Marathon conducted by Vasan Eye Care on November 16, 2021. His remarkable performance earned him the Twelfth Prize, showcasing dedication and athleticism in this challenging event. Athish's achievement is a testament to his commitment to excellence in the realm of competitive running.

Kangayam Marathon conducted by Rotary Association:

In a testament to their commitment to fitness and community engagement, several athletes participated in the 5000-Meter Kangayam Marathon conducted by the Rotary Association on August 7, 2022. Among them, P. Rajendra Prasanth stood out by securing the Third Prize, showcasing his prowess in long-distance running. Other participants, including K. Lokesh, S. Athish, M. Vitnesh Immanuvel, S. Dinesh Kumar, and G. Kadhir, actively contributed to the spirited event, emphasizing the spirit of participation and community involvement in the 2021-22 Kangayam Marathon.

Faculty Participation:

Gobinath S
HoD

1.Gobinath S deserves commendation for the successful completion of the 10-day Patent Analytics Course, equivalent to a 15-hour workload. The course, organized by Turnip Innovations and facilitated by Dr. Rahul Kapoor, took place from September 17, 2022, to September 26, 2022. Gobinath S's commitment to enhancing skills in patent analytics is noteworthy and reflects a dedication to professional development in this specialized domain.

2.Gobinath S has achieved certification as a Certified Cloud Security Professional (CCSP) from Simplilearn, as evidenced by the certification issued in November 2022. This accomplishment signifies Gobinath S's expertise and proficiency in cloud security, highlighting a commitment to staying current in this dynamic and crucial field. Congratulations on this significant achievement!

3.Gobinath S has demonstrated a commitment to continuous learning by obtaining certification in "Introduction to Artificial Intelligence" through Infosys Springboard. The certification, issued in October 2022, showcases Gobinath S's dedication to gaining foundational knowledge in the rapidly evolving field of Artificial Intelligence, reflecting a proactive approach to staying abreast of technological advancements. Congratulations on this accomplishment!

4.Gobinath S has recently acquired certification in "Introduction to Cybersecurity" through Simplilearn, as denoted by the certification issued in October 2022. This accomplishment underscores Gobinath S's commitment to bolstering knowledge in the critical field of cybersecurity, showcasing a dedication to staying informed and skilled in the ever-evolving landscape of digital security. Congratulations on this noteworthy achievement!

5.Gobinath S has obtained certification in WordPress from Udemy, as indicated by the certification issued in October 2022. This recognition signifies Gobinath S's proficiency in the popular web development platform WordPress, demonstrating a commitment to expanding skills in website creation and management. Congratulations on this achievement!

R.SIVASHANKAR AP (SrGr)/CSE

Amazon Web Services:

1.his certifies that R SIVASANKAR of BUILDERS ENGINEERING COLLEGE actively participated in the One Week National Level Online Faculty Development Program on Societal Applications of Machine Learning from December 26-30, 2022. Successfully clearing the end exam demonstrates their proficiency.

2.Mr. SIVASANKAR R of BUILDERS ENGINEERING COLLEGE has been recognized for his successful attendance at the Webinar on "Digital Twin: New Normal for IR 4.0" on August 27, 2022, organized by BVICAM, New Delhi. This participation reflects his dedication to staying updated on emerging trends in technology.

3.SIVASANKAR R from BUILDERS ENGINEERING COLLEGE actively engaged in an enriching Eight-Day Faculty Development Program focused on Research, Publication, and Patent in Humanities and Sciences. The program, organized by the Department of English and Other Foreign Languages at SRM Institute of Science and Technology, Ramapuram Campus, Chennai, spanned from the 22nd to the 30th of

August. His participation underscores a commitment to professional development and the advancement of knowledge in academia and research.

4.SIVASANKAR R demonstrated active participation in the Science Festival (Vigyan Utsav), commemorating the 75th Year of Independence (Azadi ka Amrit Mahotsav). The event, centered around the theme of "Intellectual Property Rights," took place on August 4, 2022, and was organized by the Tamil Nadu State Council for Science and Technology, Chennai. SIVASANKAR R's involvement in this celebration

SANTHIYA P
AP/CSE

Amazon Web Services:

1. Congratulations to SANTHIYA P for the successful completion of the One-Week Faculty Development Program on "Amazon Web Services." The program, organized by the Department of Computer Science and Engineering at M.Kumarasamy College of Engineering in Karur, Tamilnadu, took place from August 22, 2022, to August 27, 2022. This initiative, conducted in collaboration with BRAINOVISION SOLUTIONS INDIA PVT.LTD and ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE), exemplifies a commitment to advancing knowledge and expertise in cutting-edge technologies within the academic community. SANTHIYA P's participation and achievement in this program contribute to the continuous growth and learning in the field of computer science and engineering

2..This certificate acknowledges that SANTHIYA P from Builders Engineering College has actively participated in the One-Week National Level Online Faculty Development Program on "Societal Applications of Machine Learning" held from December 26 to December 30, 2022. The program was organized by the Department of Computer Science and Engineering at Shri Vishnu Engineering College for Women (A), Bhimavaram. SANTHIYA P has not only attended the program but has also successfully cleared the end exam, showcasing dedication and proficiency in the field of machine learning and its societal applications.

3.Congratulations to SANTHIYA P for successfully completing the Machine Learning certification on December 12, 2022, with the certificate code 4006980. This achievement, acquired through Skill Up by Simply Learn, reflects dedication and proficiency in the field of Machine Learning. Well done on obtaining this valuable certification!

4.This certificate acknowledges that Ms. SANTHIYA P from BUILDERS ENGINEERING COLLEGE successfully participated in the webinar on "AI in Healthcare and Medicine" held on November 19, 2022. The insightful webinar was organized by BVICAM, New Delhi. SANTHIYA P's attendance reflects a keen interest in staying abreast of advancements in Artificial Intelligence within the context of healthcare and medicine.

5.This certificate recognizes Ms. SANTHIYA P from Builders Engineering College for her active participation in the informative webinar on "Cyber Security, Cyber Warfare, and Cyber Citizenship." Organized by BVICAM, New Delhi, the webinar occurred on October 29, 2022. Ms. SANTHIYA P's engagement demonstrates a dedication to staying well-informed about crucial aspects of cybersecurity, fostering knowledge and awareness in this rapidly evolving field.